

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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**DATE:** April 11, 2005 **NO. OF PAGES:** Cover + 3  
**FROM:** Timothy E. Levstik **DISPATCHED BY:** Molly  
**Re:Inventor(s): Peuramaki et al** **OUR FILE NO.:** 72989  
**U.S. Application No. 10/081,133**

**TO:** Name: Examiner Monique R. Jackson, Group Art Unit 1773  
Company/Firm: USPTO  
City/State/Country: Alexandria, VA  
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**MESSAGE:**

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metal foil would tear when applied to urethane which when polymerized would cause swelling polyurethane to foam and spread over machinery and plant. To solve this problem a glutinous plastic is applied to the metal foil and other layers associated with the foil. The glutinous plastic when heated will crystallize and give the foil strength to be associated with the insulation. In the case of polyurethane insulation, the heat of the exothermal polymerization of urethane is used to at least in part effect the crystallization of the glutinous plastic. In a particularly important aspect, the crystallizable plastic is a polyamide.

The applicant's attorney and the Examiner discussed art cited in the previous Office Action, specifically Peiffer and Hendrick. At the outset applicant's attorney urged that neither reference solved the problem solved by applicant, and neither reference describes using a glutinous then crystallized resin with metal to help apply the metal to a porous substrate.

Peiffer

Peiffer merely describes multi-layered film --

- It's a multi-layered film with high barrier for gases to be used in packaging.
- It describes a cover film on base layer with metal layer on cover.
- It mentions polyester films used in conjunction with aluminum to be used as refrigerator insulation. See col. 1, ln 38-41; col. 19, ln 1-5. But has no insulation layer as claimed.

Peiffer does not describe

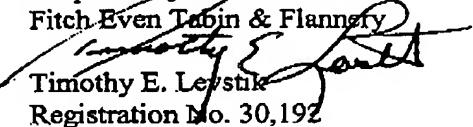
- a porous insulation such as a foamed or expanded insulation or fiber;
- a polyamide;
- a use of a glutinous polymer; and
- a crystallization of glutinous polymer.

Hendrick

Hendrick does not describe an insulation, but merely describes a metal layer laminated on each side of a thermoplastic core. Metal is not an insulation and certainly is not a porous insulation. Hendrick does not use or even hint at using a polyamide in a way where the polyamide is glutinous

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then crystallized to permit the application of a metal layer to a foamed or expanded insulation or fiber insulation.

Respectfully submitted,  
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Date: 4/11/05

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